

Practitioner's Docket Number:

IN THE INTERNATIONAL BUREAU (WIPO)

International Application No.: PCT/US03/33396  
International Filing Date: 21 October 2003 (21.10.2003)  
Title: ANTI-SOILING DETERGENT COMPOSITION  
Applicant: JOHNSON DIVERSEY, INC., et al.

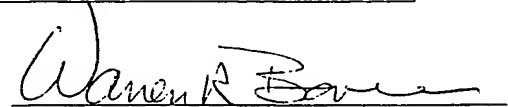
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LETTER FOR PCT ARTICLE 34 AMENDMENT OF CLAIMS  
(PCT SECTION 311(b)(ii))

1. Applicant herewith submits replacement sheets numbered 35, 36, and 37 to replace sheets numbered 35, 36, and 37 originally filed for the above-identified international application.
2. With respect to the original pages filed in the international application based on the replacement sheets submitted herewith, and in accordance with PCT Section 311 (b)(ii), the difference between the originally filed pages and the enclosed replacement pages are identified as follows:

Originally Filed Page Number:	Difference between Original Page and Replacement Page
35	Deletion of the term "and/or amino-modified organopolysiloxane" from claim 1, cancellation of claim 4, renumbering of claim 5 to claim 4, and adding multiple dependency to new claim number 4.
36	Renumbering of claim 6 to new claim number 5, and adding multiple dependency to claim 6.
37	Renumbering of claims 7, 8, 9, and 10 to new claim number 6, 7, 8, and 9, and adding multiple dependency to all claims.

Date: 31 May 2004



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# CLAIMS

1. An anti-soiling detergent composition, containing:

(A) 0.05 to 10 mass% of a polyetheramide-modified organopolysiloxane;

(B) 0.1 to 30 mass% of at least one type of surfactant selected from nonionic

5 surfactants, amphoteric surfactants, and cationic surfactants;

(C) 0.1 to 20 mass% of a metal chelating agent; and

(D) water.

2. The anti-soiling detergent composition according to claim 1, containing

(E) 0.01 to 5 mass% of a thickener in addition to components (A) to (D).

10 3. The anti-soiling detergent composition according to claim 1 or 2, containing

(F) 0.1 to 20 mass% of a water-soluble solvent in addition to the above components.

4. The anti-soiling detergent composition according to any of claims 1 to 3,

wherein the polyetheramide-modified organopolysiloxane of component (A) is a

polyetheramide-modified organopolysiloxane expressed by average compositional formula

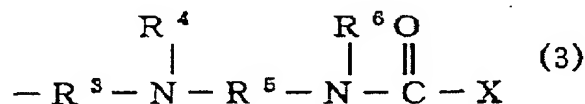
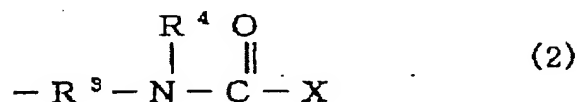
15 (1)



(where  $a$  and  $d$  are zeros or positive numbers;  $b$  and  $c$  are positive numbers such that  $1.9 \leq a + b + c + d \leq 2.2$ ;  $R^1$  is a hydrogen atom, a hydroxyl group, or a substituted or unsubstituted monovalent hydrocarbon group with 1 to 6 carbon atoms;  $R^2$  is a monovalent hydrocarbon

20 group with 1 to 6 carbon atoms;  $Q^1$  is a group expressed by general formula (2) or (3)

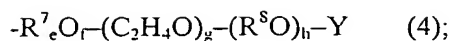
[Chemical Formula 1]



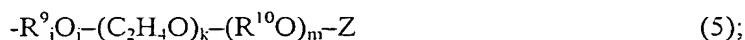
$R^3$  and  $R^5$  are divalent hydrocarbon groups with 2 to 18 carbon atoms;  $R^4$  and  $R^6$  are

hydrogen atoms or monovalent hydrocarbon groups with 1 to 6 carbon atoms;  $X$  is a group

25 expressed by general formula (4)

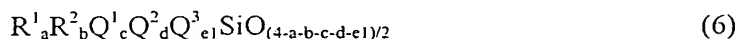


$e$  and  $f$  are each 0 or 1;  $g$  and  $h$  are zeros or positive integers of 1 or greater;  $R^7$  is a divalent hydrocarbon group with 2 to 18 carbon atoms;  $R^8$  is a divalent hydrocarbon group with 3 to 10 carbon atoms;  $Y$  is a hydrogen atom, a monovalent hydrocarbon group with 1 to 18 carbon atoms, an acyl group, or an isocyanic acid group;  $Q^2$  is a group expressed by general formula (5)



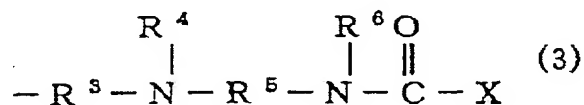
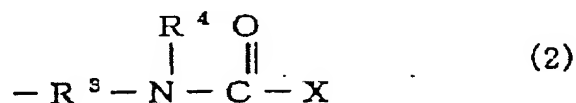
$i$  and  $j$  are each 0 or 1;  $k$  is a positive integer of 1 or greater;  $m$  is zero or a positive integer of 1 or greater;  $R^9$  is a divalent hydrocarbon group with 2 to 18 carbon atoms;  $R^{10}$  is a divalent hydrocarbon group with 3 to 10 carbon atoms; and  $Z$  is a hydrogen atom, a monovalent hydrocarbon group with 1 to 18 carbon atoms, an acyl group, or an isocyanic acid group; however  $d$  and  $g$  cannot both be zero at the same time).

5. The anti-soiling detergent composition according to any of claims 1 to 3, wherein the polyetheramide-modified organopolysiloxane of component (A) is a polyetheramide-modified organopolysiloxane expressed by average compositional formula (6)

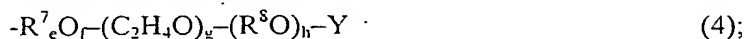


(where  $a$  and  $d$  are zeros or positive numbers;  $b$ ,  $c$ , and  $e1$  are positive numbers such that  $1.9 \leq a + b + c + d + e1 \leq 2.2$ ;  $R^1$  is a hydrogen atom, a hydroxyl group, or a substituted or unsubstituted monovalent hydrocarbon group with 1 to 6 carbon atoms;  $R^2$  is a monovalent hydrocarbon group with 1 to 6 carbon atoms;  $Q^1$  is a group expressed by general formula (2) or (3)

[Chemical Formula 2]



$R^3$  and  $R^5$  are divalent hydrocarbon groups with 2 to 18 carbon atoms;  $R^4$  and  $R^6$  are hydrogen atoms or monovalent hydrocarbon groups with 1 to 6 carbon atoms;  $X$  is a group expressed by general formula (4)



$e$  and  $f$  are each 0 or 1;  $g$  and  $h$  are zeros or positive integers of 1 or greater;  $R^7$  is a divalent hydrocarbon group with 2 to 18 carbon atoms;  $R^8$  is a divalent hydrocarbon group with 3 to 10 carbon atoms;  $Y$  is a hydrogen atom, a monovalent hydrocarbon group with 1 to 18 carbon atoms, an acyl group, or an isocyanic acid group;  $Q^2$  is a group expressed by general

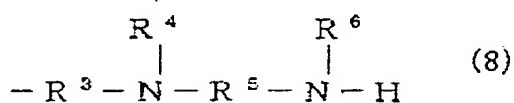
5 formula (5)



$i$  and  $j$  are each 0 or 1;  $k$  is a positive integer of 1 or greater;  $m$  is zero or a positive integer of 1 or greater;  $R^9$  is a divalent hydrocarbon group with 2 to 18 carbon atoms;  $R^{10}$  is a divalent hydrocarbon group with 3 to 10 carbon atoms; and  $Z$  is a hydrogen atom, a monovalent

10 hydrocarbon group with 1 to 18 carbon atoms, an acyl group, or an isocyanic acid group;  $d$  and  $g$  cannot both be zero at the same time;  $Q^3$  is a group expressed by general formula (7) or (8)

[Chemical Formula 3]



15  $R^3$  and  $R^5$  are divalent hydrocarbon groups with 2 to 18 carbon atoms; and  $R^4$  and  $R^6$  are hydrogen atoms or monovalent hydrocarbon groups with 1 to 6 carbon atoms).

6. The anti-soiling detergent composition according to any of claims 2 to 5, wherein the thickener of component (E) is at least one compound selected from among thickening polysaccharides, carboxyvinyl polymers, crosslinked polyacrylic acids, and salts  
20 thereof.

7. The anti-soiling detergent composition according to any of claims 3 to 6, wherein the water-soluble solvent of component (F) is at least one compound selected from among alcohols, glycol ethers, and terpene-based hydrocarbon solvents.

8. The anti-soiling detergent composition according to any of claims 1 to 7,  
25 wherein the anti-soiling detergent composition is used in hard-surface applications.

9. The anti-soiling detergent composition according to any of claims 1 to 8, wherein the anti-soiling detergent composition is used in applications involving restrooms, washstands, baths, and other damp locations.